

## Contents Volume 169

### **Express Letters**

Geomagnetic paleointensity derived from single plagioclase crystals		1
R.D. Cottrell and J.A. Tarduno		1
Paleomagnetic evidence for block rotations in central Hokkaido–south Sakhalin, Northeast Asia		7
T. Takeuchi, K. Kodama and T. Ozawa		7

### **Regular Letters**

Relative paleointensity of the geomagnetic field during Brunhes Chron recorded in North Pacific deep-sea sediment cores: orbital influence?		23
T. Yamazaki		23
Central anomaly magnetization high: constraints on the volcanic construction and architecture of seismic layer 2A at a fast-spreading mid-ocean ridge, the EPR at 9°30'–50'N		37
H. Schouten, M.A. Tivey, D.J. Fornari and J.R. Cochran		37
Low-temperature susceptibility and hysteresis of magnetite		51
A.R. Muxworthy		51
Paleomagnetism of Permian through Early Triassic sequences in central Spitsbergen: implications for paleogeography		59
J. Nawrocki		59
Geochronology and palaeomagnetism of the Hunnedenal dykes, SW Norway: implications for the Sveconorwegian apparent polar wander loop		71
H.J. Walderhaug, T.H. Torsvik, E.A. Eide, B. Sundvoll and B. Bingen		71
Magnetic properties of a recent parabrown-earth from Southern Germany		85
M. Hanesch and N. Petersen		85
Fluid flow through carbonate platforms: constraints from $^{234}\text{U}/^{238}\text{U}$ and $\text{Cl}^-$ in Bahamas pore-waters		99
G.M. Henderson, N.C. Slowey and G.A. Haddad		99
Lateral mixing and advection of reactive isotope tracers in ocean basins: observations and mechanisms		113
F. von Blanckenburg and H. Igel		113
Exploring the kappa conundrum: the role of recycling in the lead isotope evolution of the mantle		129
T. Elliott, A. Zindler and B. Bourdon		129
Wetting of mantle olivine by sulfide melt: implications for Re/Os ratios in mantle peridotite and late-stage core formation		147
G.A. Gaetani and T.L. Grove		147
Oxygen isotope evidence regarding the formation of spinel-bearing chondrules		165
S. Maruyama, H. Yurimoto and S. Sueno		165
On the preservation of mantle information in ultramafic nodules: glass inclusions within minerals versus interstitial glasses		173
P. Schiano and B. Bourdon		173
Helium and lead isotope geochemistry of the Azores Archipelago		189
M. Moreira, R. Doucelance, M. D. Kurz, B. Dupré and C.J. Allègre		189

### **Erratum**

Erratum to "Seasonal variations of heavy metals in the 1960s Alpine ice: sources versus meteorological factors" [Earth Planet. Sci. Lett. 164 (1998) 521–533]		207
K. Van de Velde, C. Bouttron, C. Ferrari, T. Bellomi, C. Barbante, S. Rudnev and M. Bolshov		207

**Regular Letters**

Trace elements in anorthite megacrysts from the Kurile Island Arc: a window to across-arc geochemical variations in magma compositions I.N. Bindeman and J.C. Bailey . . . . .	209
Cracking at the magma-hydrothermal transition: evidence from the Troodos Ophiolite, Cyprus K.M. Gillis and M.D. Roberts . . . . .	227
Fission track and numerical thermal modeling of differential exhumation of the Glarus thrust plane (Switzerland) M.K. Rahn and B. Grasemann . . . . .	245
An upper bound on the rate of strain in the Central Apennines, Italy, from triangulation measurements between 1869 and 1963 I. Hunstad and P. England . . . . .	261
Earthquake-related elemental and isotopic lead anomaly in a springwater F. Poitrasson, S.H. Dundas, J.-P. Toutain, M. Munoz and A. Rigo . . . . .	269
Organic matter and trace element rich sapropels and black shales: a geochemical comparison I.A. Nijenhuis, H.-J. Bosch, J.S. Simminghe Damsté, H.-J. Brumsack and G.J. De Lange . . . . .	277
Experimental shock deformation in zircon: a transmission electron microscopic study H. Leroux, W.U. Reimold, C. Koeberl, U. Hornemann and J.-C. Doukhan . . . . .	291
A model that reconciles major- and trace-element data from abyssal peridotites P.D. Asimow . . . . .	303
<i>Author Index Volume 169</i> . . . . .	321

